# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PPLICANT: James R. Crawford

SERIAL NO.: 10/700,377

**GROUP ART UNIT:** 

FILED:

November 3, 2003

**EXAMINER:** 

FOR: "Bi-Directional Thruster Pig Apparatus and Method of Utilizing Same"

ATTORNEY DOCKET NO.: C03209US (71768.2C2)

\* \* \* \* \* \* \* \* \* \* \* \* \* \*

#### **INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Enclosed is a form PTO/SB/08a. Copies of these references are enclosed.

Applicant respectfully submits that the application is in condition for allowance. A Notice of Allowance is hereby respectfully requested.

Should the Examiner feel that a telephone conference would advance the prosecution of this application, he is encouraged to contact the undersigned at the telephone number listed below.

Applicant respectfully petitions the Commissioner for any extension of time necessary to render this paper timely.

No fee is required to submit this form. However, if a fee is necessary, please charge any additional required fees to deposit Account No. 50-0694.

Respectfully submitted,

Gregory C. Smith, Reg. No. 29,441

Charles C. Garvey, Jr., Reg. No. 27,889

Seth M. Nehrbass, Reg. No. 31,281

Stephen R. Doody, Reg. No. 29,062

Brett A. North, Reg. No. 42,040

GARVEY, SMITH, NEHRBASS & DOODY, L.L.C.

PTO Customer No. 22920

3838 N. Causeway Blvd., Suite 3290

Metairie, LA 70002

Tel.: (504) 835-2000

Fax: 504-835-2070

e-mail: <u>IPLNO@AOL.COM</u> www.neworleanspatents.com

### **CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this graph day of February, 2004.

Sheet

PTO/SB/08A (08-03) Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE eduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known Application Number Filing Date 11-03-2003 First Named Inventor James R. Crawford Art Unit Examiner Name Attorney Docket Number C03209US (71768.2C2)

				DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Document Number  Number-Kind Code <sup>2 (# known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		<sup>US-</sup> 712,486	11-04-1902	Black	
		<sup>US-</sup> 712,487	11-04-1902	Black	
_		US- 712,488	11-04-1902	Black	
		<sup>US-</sup> 712,901	11-04-1902	Black	
		<sup>US-</sup> 879,822	02-18-1908	Karns	
		<sup>US-</sup> 1,281,756	10-15-1918	Black	
		<sup>US-</sup> 1,801,294	04-21-1931	Sutton	
		<sup>US-</sup> 1,913,365	06-13-1933	Bailey	
		<sup>US-</sup> 2,887,118	05-19-1959	Loeffler et al.	
		<sup>US-</sup> 3,056,155	10-02-1962	Harmes	
		<sup>US-</sup> 3,089,434	05-14-1963	Andreasen	
		<sup>US-</sup> 3,379,027	04-23-1968	Mowell et al.	
-		<sup>US-</sup> 3,402,777	09-24-1968	Watson	
		<sup>US-</sup> 3,467,196	09-16-1969	Kinsman	
		US- 3,495,546	02-17-1970	Brown et al.	
		<sup>US-</sup> 3,525,401	08-25-1970	Hanson et al.	
		<sup>US-</sup> 3,763,896	10-09-1973	Horne et al.	
		<sup>US-</sup> 3,729,057	04-24-1973	Werner	
		<sup>US-</sup> 3,827,487	4,073,302	Jackson et al.	

		FORE	IGN PATENT DOCL	MENTS		
Examiner Initials*	Cite No.1	ite   Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	T
		Country Code <sup>3</sup> "Number <sup>4</sup> "Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T <sup>6</sup>
		0187599	07-16-1986	Wittrisch		
		894117	. 04-18-1962	Mooney		
		1132503	11-06-1968	Esso Production Res		Г
		402128094A	5-16-1990	Negishi		
		05161884	06-29-1993			Г
		94/23174	10-13-1994	Stoltz		

Examiner	Date	
Signature		sidered
•		

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 'Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND

TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08A (08-03) Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE tion Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

1449/PTO

Still PARTE !

Sheet

(Use as many sheets as necessary) of

Complete if Known					
Application Number					
Filing Date	11-03-2003				
First Named Inventor	James R. Crawford				
Art Unit					
Examiner Name					
Attorney Docket Number	C03209US (71768.2C2)				

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	No.1				Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 4 072 202	894117	longo	, iguiso, ppez.
	<del> </del>	US- 4,073,302		Jones	
		<sup>US-</sup> 4,360,290	11-23-1982	Ward	
		<sup>US-</sup> 4,585,061	04-29-1986	Lyons, Jr. et al.	
		<sup>US-</sup> 4,729,429	03-08-1988	Wittrisch	
		<sup>US-</sup> 4,756,510	07-12-1988	Klamm et al.	
		<sup>US-</sup> 4,852,391	08-01-1989	Ruch et al.	
		US- 4,919,204	04-24-1990	Baker et al.	
		<sup>US-</sup> 4,941,773	07-17-1990	Vergouw	
		<sup>US-</sup> 5,069,285	12-03-1991	Nuckols	
		<sup>US-</sup> 5,180,009	01-19-1993	Sneed	
		<sup>US-</sup> 5,188,174	02-23-1993	Anderson, Jr. et al.	
	1.	<sup>US-</sup> 5,208,936	05-11-1993	Campbell	
	<u> </u>	<sup>US-</sup> 5,209,304	05-11-1993	Nice	
		<sup>US-</sup> 5,309,990	05-10-1994	Lance	
		us- 5,309,993	05-10-1994	Coon et al.	
		<sup>US-</sup> 5,316,094	05-31-1994	Pringle	
		<sup>US-</sup> 5,355,950	10-18-1994	Zwart	
		<sup>US-</sup> 5,429,194	07-04-1995	Nice	
	-	<sup>US-</sup> 5,445,224	08-29-1995	Comeaux	

		FORE	IGN PATENT DOCL	JMENTS		
Examiner Initials*	Cite No.1	Cite Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code <sup>3 -</sup> Number <sup>4 -</sup> Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T6
		96/34173	10-31-1996	Murray		
	ļ					L
	ļ		· · · · · · · · · · · · · · · · · · ·			
	<u> </u>					
	1			1		

Examiner Signature	Date Considered	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. The reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. The reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Document, by the two-letter code (WIPO Standard ST.3), For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Skind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language. Translation is attached.
This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the

Inis collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08A (08-03) Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE PADE TRADE for form 1449/PTO Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Number

Attorney Docket Number

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

Filing Date 11-03-2003 First Named Inventor James R. Crawford Art Unit Examiner Name C03209US (71768.2C2)

Complete if Known

**U. S. PATENT DOCUMENTS** Cite No.1 Pages, Columns, Lines, Where Examiner **Document Number** Publication Date Name of Patentee or Initials\* MM-DD-YYYY Applicant of Cited Document Relevant Passages or Relevant Number-Kind Code<sup>2</sup> (# known) Figures Appear <sup>US-</sup> 5,447,200 09-05-1995 Dedora et al. <sup>US-</sup> 5,494,103 02-27-1996 Surjaatmadja et al. <sup>US-</sup> 5,497,807 03-12-1996 Rogers <sup>US-</sup> 5,566,764 10-22-1996 Elliston <sup>US-</sup> 5,692,563 12-02-1997 Krueger et al. <sup>US-</sup>5,695,009 12-09-1997 Hipp US-5,704,393 01-06-1998 Connell et al. us- 5,992,250 Kluth et al. 11-30-1999 <sup>US-</sup> 6,250,387 Carmichael et al. 06-26-2001 <sup>US-</sup> 6,260,617 07-17-2001 Baugh <sup>US-</sup> 6,315,498 11-13-2001 Baugh et al. <sup>US-</sup> 6,343,657 Baugh et al. 02-05-2002 <sup>US-</sup> 6,561,280 05-13-2003 Baugh et al. US- 6,651,744 Crawford 11-25-2003 US-US-US-US-US-

		FOREIG	N PATENT DOCU	MENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (# known)	MM-DD-YYYY		Or Relevant Figures Appear	۲
					1.74	
				- -		
		_				
		*** *** * * * * * * * * * * * * * * *				

Examiner	Date	
Signature	Considered	
_		

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 'Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

 $Ruby\pdf\pdf(2)\$